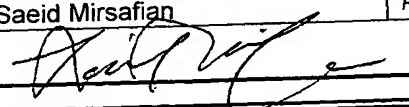
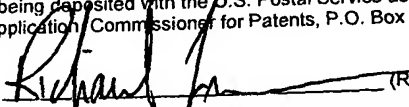


| | | | |
|---|---------|---|---|
| UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> | | Attorney Docket No. 29926/39501 | |
| | | First Inventor Byung-Jae Lee | |
| | | Title | MEMORY DEVICE IN SEMICONDUCTOR FOR ENHANCING ABILITY OF TEST |
| | | Express Mail Label No. EV323777414US | |
| APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small> | | ADDRESS TO: MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | |
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing)</small> | | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program <i>(Appendix)</i> | |
| 2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. | | 8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> | |
| 3. <input checked="" type="checkbox"/> Specification [Total Pages 27] <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the invention- Brief Summary of the invention- Brief Description of the Drawings <i>(if filed)</i>- Detailed Description- Claim(s)- Abstract of the Disclosure | | a. <input type="checkbox"/> Computer Readable Form (CRF) | |
| 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 13] | | b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper | |
| 5. Oath or Declaration [Total Sheets 1] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 18 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small> | | c. <input type="checkbox"/> Statements verifying identity of above copies | |
| 6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | | ACCOMPANYING APPLICATIONS PARTS | |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No. _____ Prior application information: Examiner _____ Art Unit: _____ | | 9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) | |
| | | 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> | |
| | | 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> | |
| | | 12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations | |
| | | 13. <input type="checkbox"/> Preliminary Amendment | |
| | | 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> | |
| | | 15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) 2002-66919 Korea <i>(if foreign priority is claimed)</i> | |
| | | 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. | |
| | | 17. <input type="checkbox"/> Other: _____ | |
| 19. CORRESPONDENCE ADDRESS | | | |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | | 04743 or <input type="checkbox"/> Correspondence address below | |
| Name MARSHALL, GERSTEIN & BORUN | | | |
| Address Michael R. Hull | | | |
| 233 S. Wacker Drive, Suite 6300 | | | |
| Sears Tower | | | |
| City | Chicago | State | IL |
| Country | US | Telephone | (312) 474-6300 |
| | | Zip Code | 60606-6357 |
| | | Fax | (312) 474-0448 |
| Name (Print/Type) Saeid Mirsafian | | Registration No. (Attorney/Agent) 52,035 | |
| Signature  | | Date July 11, 2003 | |
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| Dated: July 11, 2003 | | Signature:  (Richard Zimmermann) | |

07/11/03

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

Complete if Known

| | |
|----------------------|------------------|
| Application Number | Not Yet Assigned |
| Filing Date | Not Yet Assigned |
| First Named Inventor | Byung-Jae Lee |
| Examiner Name | Not Yet Assigned |
| Art Unit | Not Yet Assigned |

| | | |
|-------------------------|------|--------|
| TOTAL AMOUNT OF PAYMENT | (\$) | 750.00 |
|-------------------------|------|--------|

| | |
|---------------------|-------------|
| Attorney Docket No. | 29926/39501 |
|---------------------|-------------|

METHOD OF PAYMENT (check all that apply)

| | | | | | | | | | |
|-------------------------------------|-------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------|--------------------------|------|
| <input checked="" type="checkbox"/> | Check | <input type="checkbox"/> | Credit Card | <input type="checkbox"/> | Money Order | <input type="checkbox"/> | Other | <input type="checkbox"/> | None |
|-------------------------------------|-------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------|--------------------------|------|

☐ Deposit Account

Deposit
Account
Number

13-2855

**Deposit
Account
Name**

MARSHALL, GERSTEIN &
BORUN

The Director Is hereby authorized to: (check all that apply)

| | | | |
|--------------------------|-------------------------------|-------------------------------------|-------------------------|
| <input type="checkbox"/> | Charge fee(s) indicated below | <input checked="" type="checkbox"/> | Credit any overpayments |
|--------------------------|-------------------------------|-------------------------------------|-------------------------|

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | | |
| 1001 | 750 | 2001 | 375 | Utility filing fee | 750.00 |
| 1002 | 330 | 2002 | 165 | Design filing fee | |
| 1003 | 520 | 2003 | 260 | Plant filing fee | |
| 1004 | 750 | 2004 | 375 | Reissue filing fee | |
| 1005 | 160 | 2005 | 80 | Provisional filing fee | |

| | | |
|---------------------|-------------|---------------|
| SUBTOTAL (1) | (\$) | 750.00 |
|---------------------|-------------|---------------|

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | | Extra Claims | Fee from below | Fee Paid |
|-----------------------|---|-----------------|-------------------|----------|
| Total Claims | 4 | -20** = | x | = 0.00 |
| Independent Claims | 2 | -3** = | x | = 0.00 |
| Multiple Dependent | | | | = |

| Large Entity | | Small Entity | | <u>Fee Description</u> |
|--------------|----------|--------------|----------|--|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | |
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 84 | 2201 | 42 | Independent claims in excess of 3 |
| 1203 | 280 | 2203 | 140 | Multiple dependent claim, if not paid |
| 1204 | 84 | 2204 | 42 | ** Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | ** Reissue claims in excess of 20 and over original patent |

| | | |
|---------------------|-------------|-------------|
| SUBTOTAL (2) | (\$) | 0.00 |
|---------------------|-------------|-------------|

****or number previously paid, if greater. For Reissues, see above**

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | | |
| 1051 | 130 | 2051 | 65 | Surcharge – late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge – late provisional filing fee or cover sheet. | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for <i>ex parte</i> reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive – unavoidable | |
| 1453 | 1,300 | 2453 | 650 | Petition to revive – unintentional | |
| 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| 1502 | 470 | 2502 | 235 | Design issue fee | |
| 1503 | 630 | 2503 | 315 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37CFR 1.129(b)) | |
| 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |

Other fee (specify)

*Reduced by Basic Filing Fee Paid

| | | |
|---------------------|-------------|--------------|
| SUBTOTAL (3) | (\$) | 40.00 |
|---------------------|-------------|--------------|

SUBMITTED BY

| | |
|-------------------|-----------------|
| Name (Print/Type) | Saeid Mirsafian |
|-------------------|-----------------|

Registration No.
(Attorney/Agent)

52,035

Complete (if applicable)

| | |
|-----------|----------------|
| Telephone | (312) 474-6639 |
|-----------|----------------|

Signature

Date

July 11, 2003

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Dated: July 11, 2003

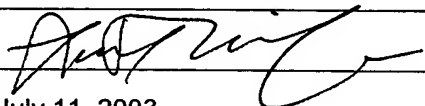
Signature:

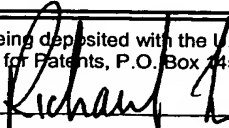
(Richard Zimmermann)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|---|---|------------------------|------------------|
| <h1 style="text-align: center;">TRANSMITTAL FORM</h1> <p style="text-align: center;">(to be used for all correspondence after initial filing)</p> | | Application Number | Not Yet Assigned |
| | | Filing Date | Not Yet Assigned |
| | | First Named Inventor | Byung-Jae Lee |
| | | Art Unit | Not Yet Assigned |
| | | Examiner Name | Not Yet Assigned |
| Total Number of Pages in This Submission | 1 | Attorney Docket Number | 29926/39501 |

| ENCLOSURES (check all that apply) | | |
|--|--|--|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): |
| <div style="border: 1px solid black; padding: 5px; width: fit-content;">Remarks</div> | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|---|
| Firm or Individual name | MARSHALL, GERSTEIN & BORUN LLP Saeid Mirsafian - 52,035 |
| Signature |  |
| Date | July 11, 2003 |

| | |
|---|---|
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| Dated: July 11, 2003 | Signature:  (Richard Zimmermann) |

Certificate of Express Mailing Under 37 CFR 1.10

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Alexandria, VA 22313-1450

on July 11, 2003
Date

Signature

Richard Zimmermann

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Application Data Sheet